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Listing of Claims

Please delete claims 7-35. Please add claims 36-66 as follows. The following list is complete and supercedes previous claims in the case.

- 1. (Original) A preservation solution for cells, tissues, and organs comprising a combination of polyglycerol and lactose in an amount effective to preserve the cells, tissues, and organs under hypothermic conditions.
- 2. (Original) The preservation solution of claim 1 wherein the lactose is alpha lactose.
- 3. (Original) The preservation solution of claim 1 wherein the polyglycerol is from n = 2 to n = 200 monomers.
- (Original) The preservation solution of claim 1 wherein the polyglycerol is decaglycerol or hexaglycerol.
- 5. (Original) The preservation solution of claim 1 wherein the lactose is at a concentration from 11 mM to 250 mM.
- 6. (Original) The preservation solution of claim 1 wherein the polyglycerol is at a concentration of 10 mOsm to 250 mOsm.
 - 7-35 (Cancelled)
 - 36. (New) The preservation solution of claim 1 further comprising glutathione.
 - 37. (New) The solution of claim 36, further comprising chondroitin sulfate.
- 38. (New) The solution of claim 37 wherein the chondroitin sulfate is chondroitin sulfate A.
- 39. (New) The solution of claim 37, wherein the concentration of chondroitin sulfate is on the order of 0.01% w/v to 1% w/v.



- 40. (New) The solution of claim 37, further comprising chlorpromazine.
- 41. (New) The solution of claim 40, wherein the concentration of chlorpromazine is about 1-50 micrograms/ml.
- 42. (New) The solution of claim 41, wherein the concentration of chlorpromazine is about 2-10 micrograms/ml.
 - 43. (New) The solution of claim 40 further comprising citrate.
 - 44. (New) The solution of claim 43, further comprising calcium.
 - 45. (New) The solution of claim 44, further comprising magnesium.
 - 46. (New) The solution of claim 45, further comprising adenine.
 - 47. (New) The solution of claim 46, further comprising glucose.
 - 48. (New) The solution of claim 47, further comprising acetate.
 - 49. (New) The solution of claim 48 further comprising phosphate buffer.
- 50. (New) The solution of claim 36, wherein the solution has an osmolality of less than about 350 mOsm.
- 51. (New) The solution of claim 36, wherein the sum of all impermeant species contributes 20-250 mOsm (milliosmolal) to the osmolality of the solution.
- (New) A method for the preservation of cells, tissues, or organs under conditions of impaired cell volume homeostasis, comprising:

contacting the cells, tissues, or organs with a solution of claim 1.

(53) (New) A method for the preservation of cells, tissues, or organs under conditions of impaired cell volume homeostasis, comprising:

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contacting the cells, tissues, or organs with a solution comprising polyglycerol in an amount effective to preclude or to reverse cell swelling.

- 54. (New) The method of claim 53 wherein the contacting is via intravenous or intra-arterial administration.
- 55. (New) The method of claim 53 wherein the contacting is in vivo via arterial organ perfusion or retrograde venous perfusion of an organ or vascularized tissue.
- 56. (New) The method of claim 53 wherein the contacting is in vitro via arterial organ perfusion or retrograde venous perfusion of an organ or vascularized tissue.
- 57. (New) The method of claim 53 wherein the contacting is via the immersion of or bathing of affected cells, tissues, or organs.
 - 58. (New) The method of claim 57 wherein the lactose is alpha lactose.
- 59. (New) The method of claim 53 wherein the polyglycerol is from n=2 to 200 monomer units in length.
- 60. (New) The method of claim 53 wherein the polyglycerol is tetraglycerol, hexaglycerol, or decaglycerol.
- 61. (New) The method of claim 53 wherein the polyglycerol is at a concentration of from about 20 mOsm to 1,500 mOsm when in contact with the cell, tissue, or organ.
- 62. (New) The method of claim 53 wherein the effective amount is an isotonic solution.
- 63. (New) The method of claim 53 wherein the effective amount is a hypertonic solution.
- (64). (New) A method for the preservation of cells, tissues, or organs under conditions of impaired cell volume homeostasis, comprising:



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contacting the cells, tissues, or organs with a solution comprising lactose in an amount effective to preclude or to reverse cell swelling.

- 65. (New) The method of claim 64 wherein the lactose is alpha lactose.
- 66. (New) The method of claim 64 wherein the lactose is at a concentration from about 11 mM to about 250 mM.